

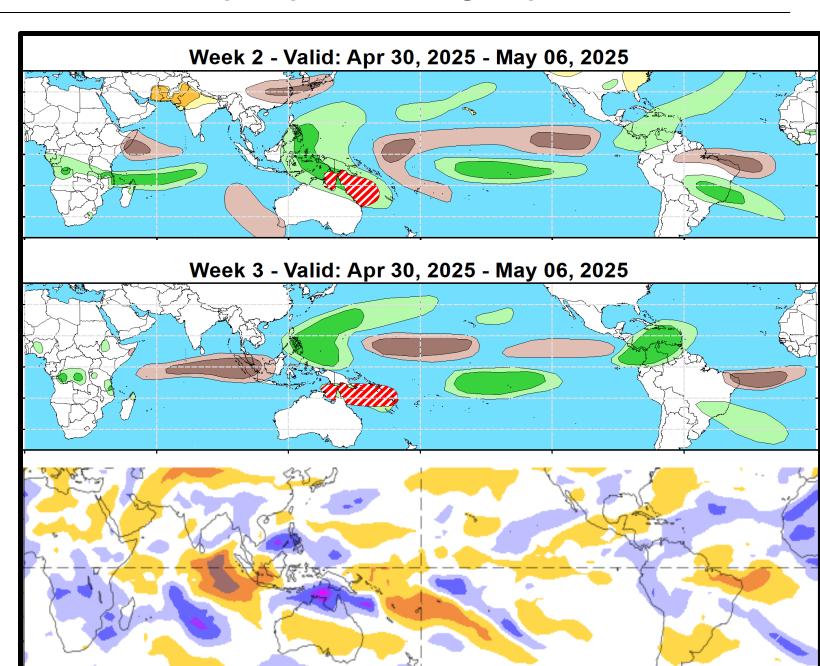


Weeks 2-3 Global Tropics Hazards Outlook 5/6/2025

Nick Novella
NWS / NCEP / Climate Prediction Center

Outlook Review: TC development & anomalous precipitation during the past week

- No TC formed in the last week
- No TCs have formed since Apr 17



Synopsis of Climate Modes:

ENSO: (Apr 10, 2025 Update) next update on Thursday, May 8th

- ENSO Alert System Status: Final La Niña Advisory
- ENSO-neutral is favored during the Northern Hemisphere summer, with a greater than 50% chance through August-October 2025.

MJO and other subseasonal tropical variability:

- Despite some renewed eastward propagation of the MJO signal in the RMM observations, the global tropics
 continues to depict a disorganized pattern, with other modes of variability remaining at play.
- Equatorial Kelvin wave activity has and looks to be predominate mode of variability for much of this spring.
- RMM and upper-level velocity potential forecasts are unsupportive of a more coherent MJO reemerging during the next 3 weeks, which combined with ENSO-neutral conditions, leads to added uncertainty in the outlook.
- Dynamical models maintain low odds for tropical cyclogenesis in the eastern Hemisphere, with growing support for development in the western Hemisphere heading into the start of the Eastern Pacific Hurricane Season.

GTH Outlook:

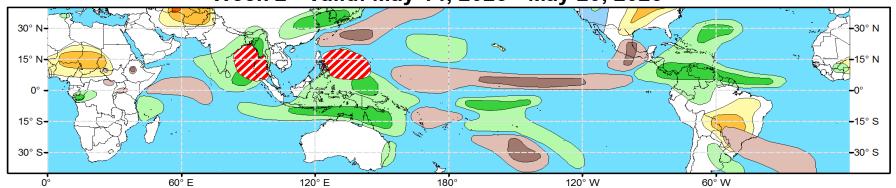


Global Tropics Hazards Outlook

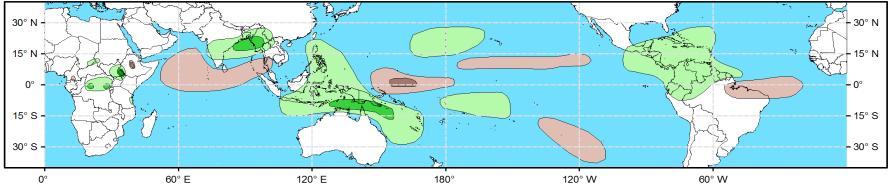
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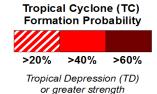
Week 2 - Valid: May 14, 2025 - May 20, 2025

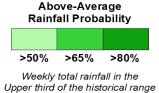


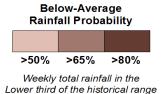


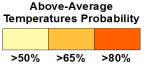


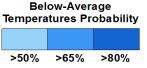










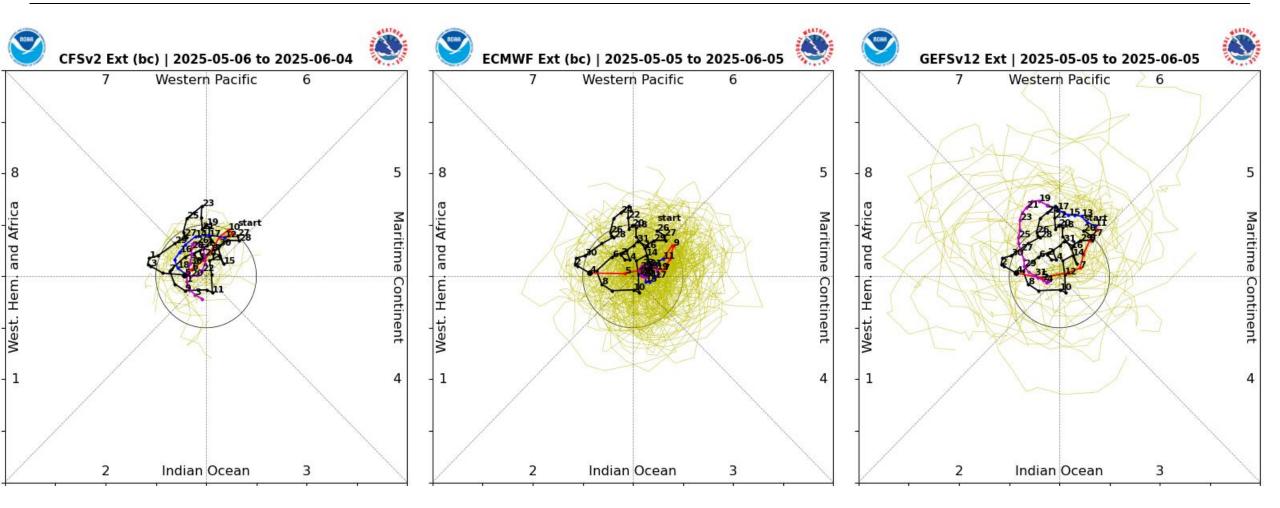


7-day max temperatures in the Upper third of the historical range Lower third of the historical range

Issued: 05/06/2025 Forecaster: Novella This product is updated once per week and targets broad scale conditions integrated over a 7-day period for US interests only.

Consult your local responsible forecast agency.

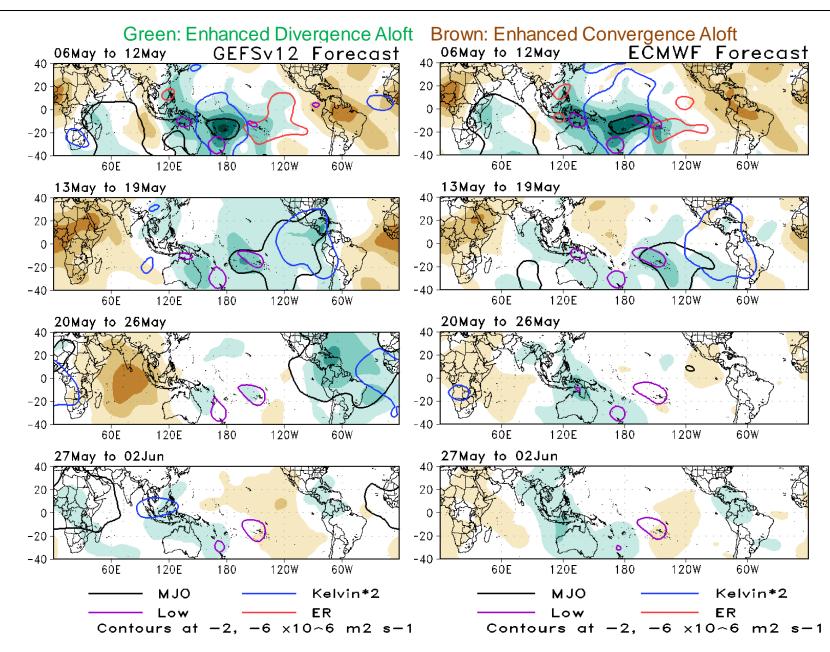
RMM Index Observations & Forecasts:



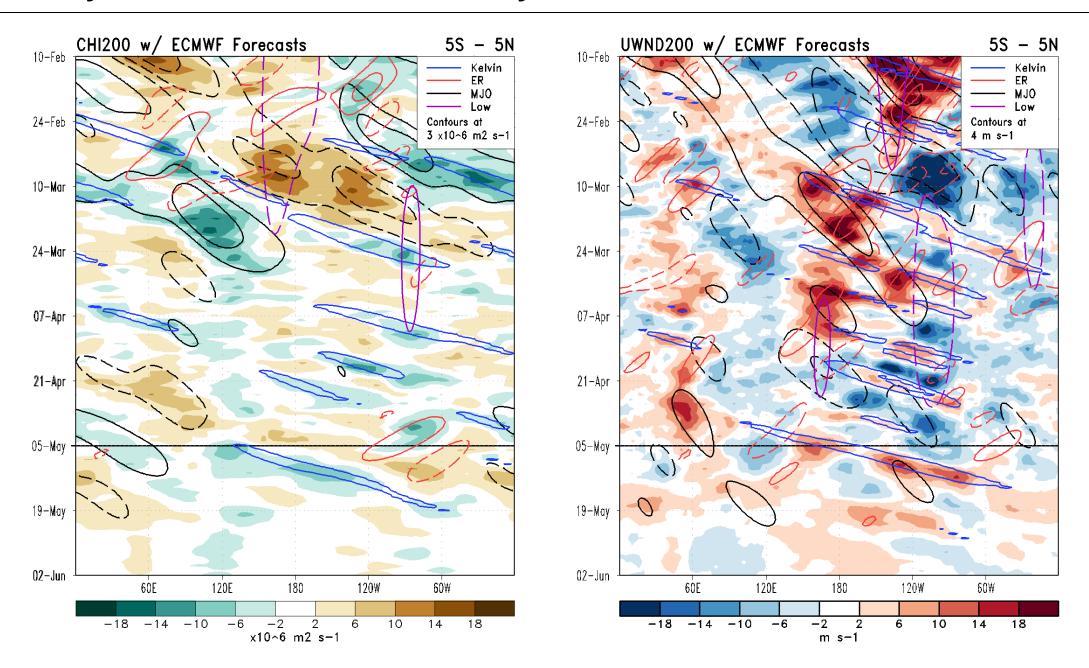
- Dynamical models are in good agreement on short-term, favoring a signal that quickly returns to the Maritime Continent in a short-span. This behavior is likely more related to convectively coupled Kelvin Wave activity than a canonical MJO.
- During weeks 2 and 3, CFS and ECMWF favor a weak and incoherent signal, with the GEFS suggesting a more organized event could unfold.

200-hPa Velocity Potential Anomaly Maps:

- The GEFS maintains more MJO activity coming through the filtering than the ECWMF.
- Both favor a continuation of Kelvin wave activity through the next two weeks, while the anomaly pattern weakens considerably by late May.
- Rossby wave activity over the western Pacific is expected to bring more favorable upper-level conditions for enhanced precipitation and tropical cyclone development in the northeastern Indian Ocean during week-2

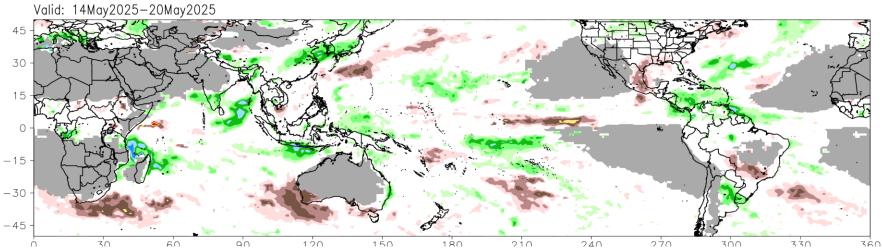


Velocity Potential and u200 Anomaly Time/Lon Plots:

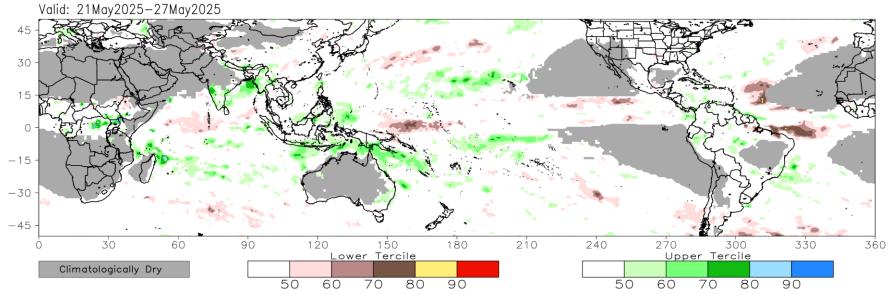


Consolidated Probabilistic Precipitation: Weeks 2 & 3

CONS (CFS+ECMWF+GEFS): Week2 Probability for Total Rainfall Below(Above) Lower(Upper) Tercile (%)



CONS (CFS+ECMWF+GEFS): Week3 Probability for Total Rainfall Below(Above) Lower(Upper) Tercile (%)

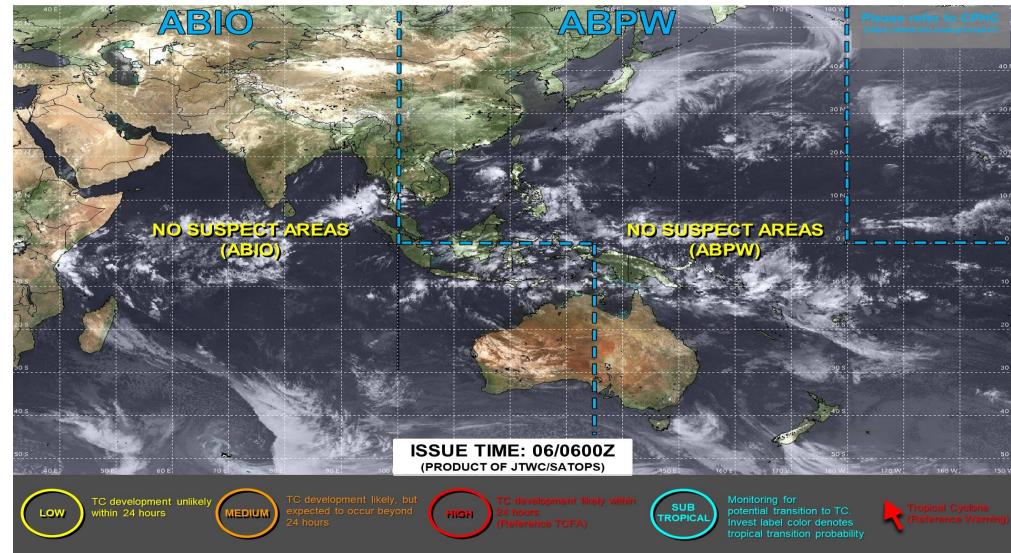


Tropical Cyclone Monitoring/Forecast: JTWC

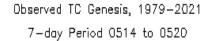


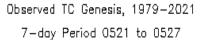
JOINT TYPHOON WARNING CENTER

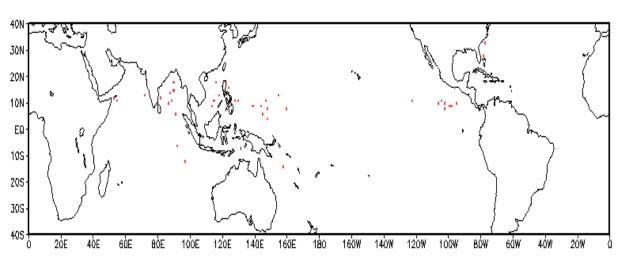


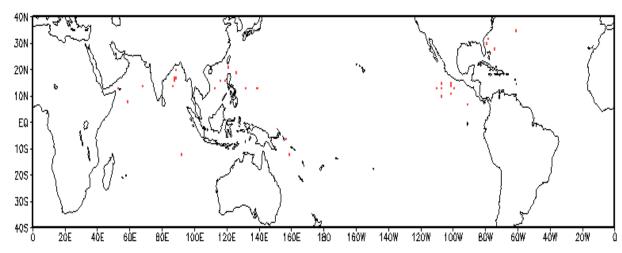


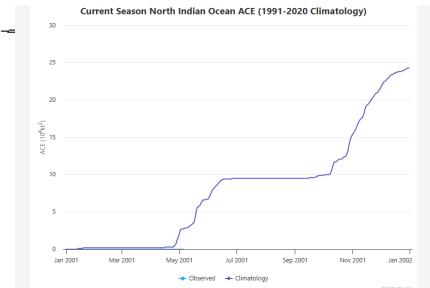
TC Climatological Genesis: Weeks 2+3

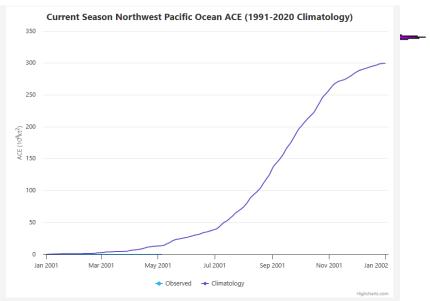




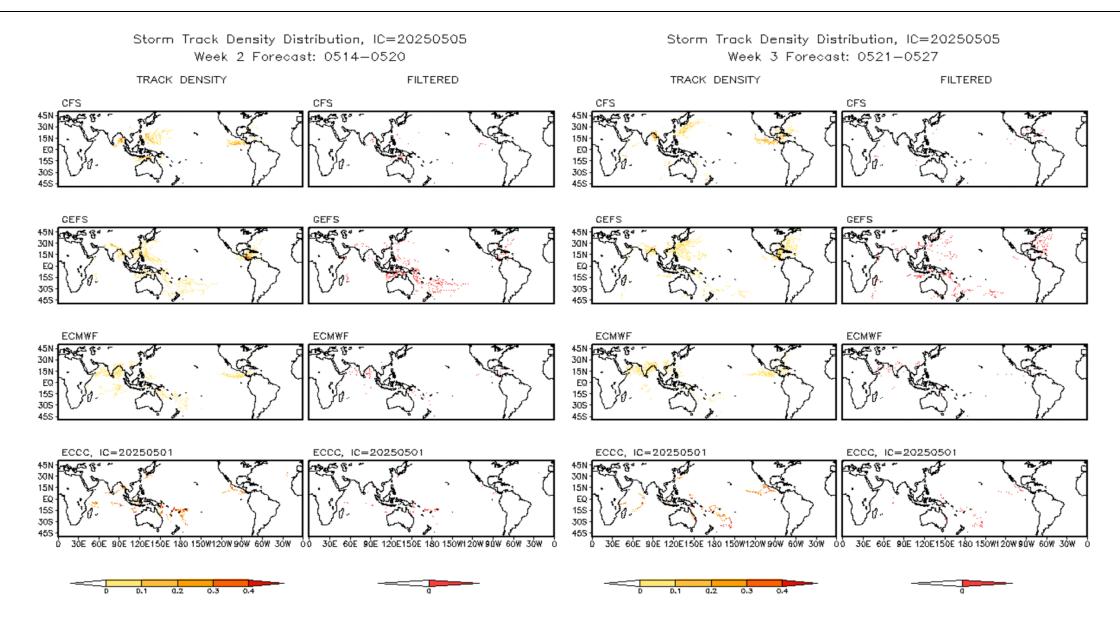


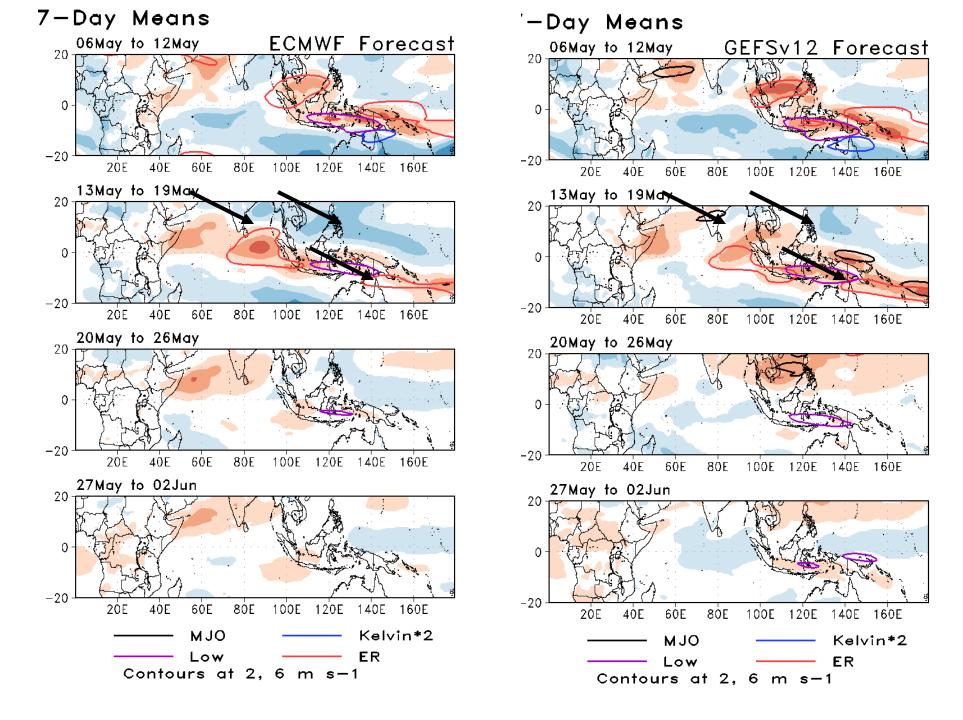


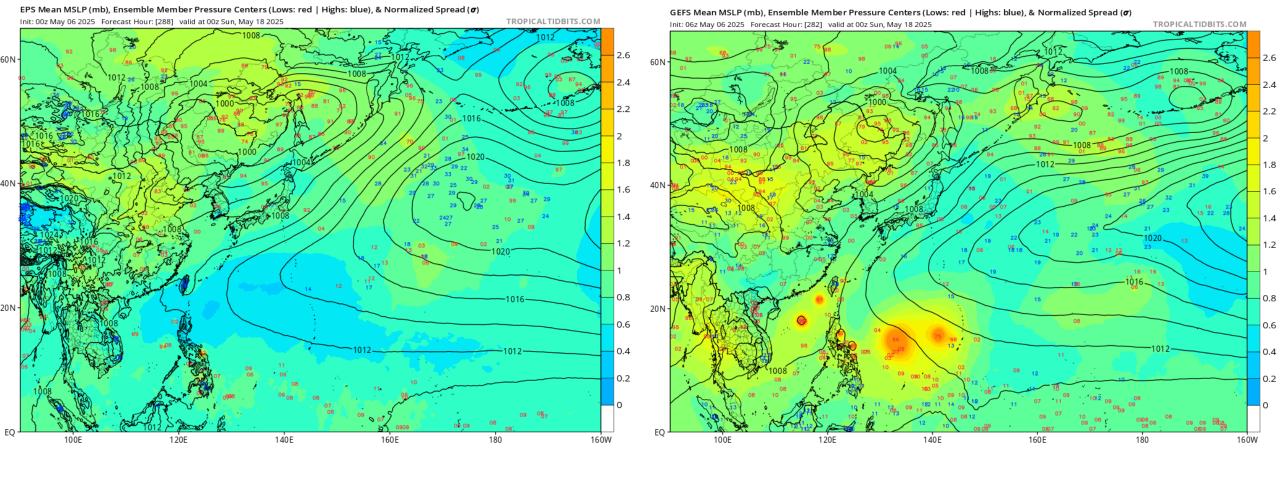


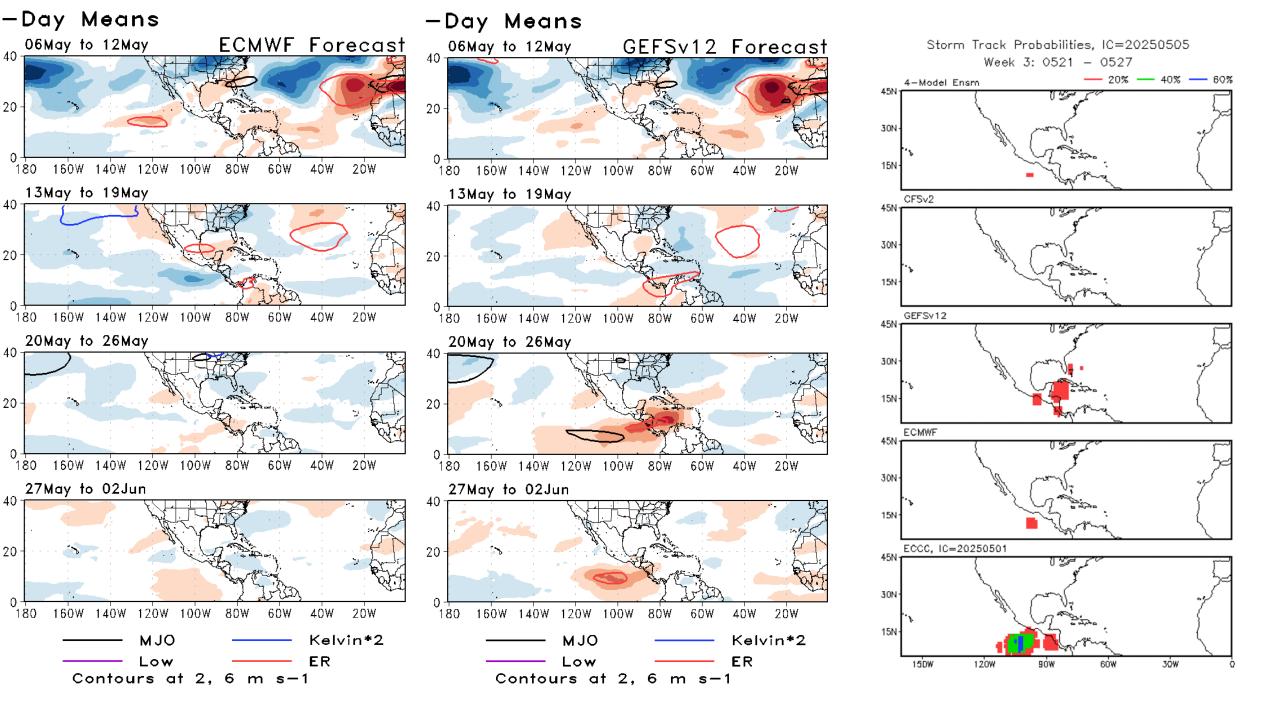


Multi-Model TC Track Densities: Weeks 2+3

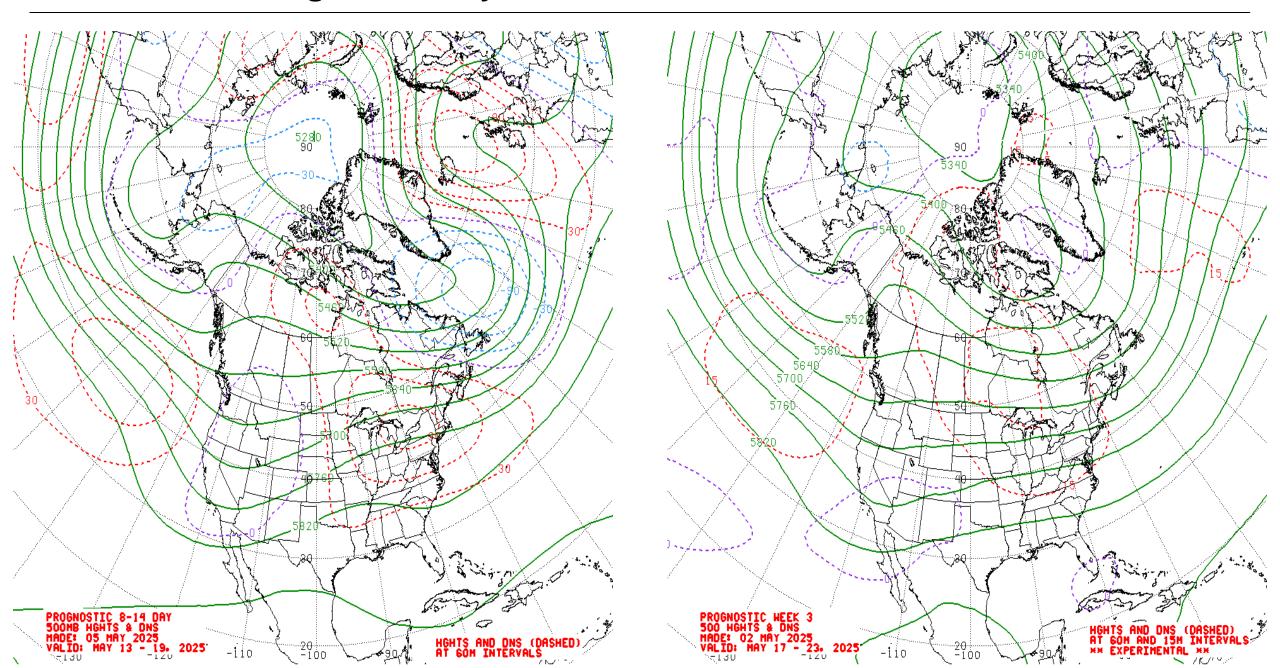




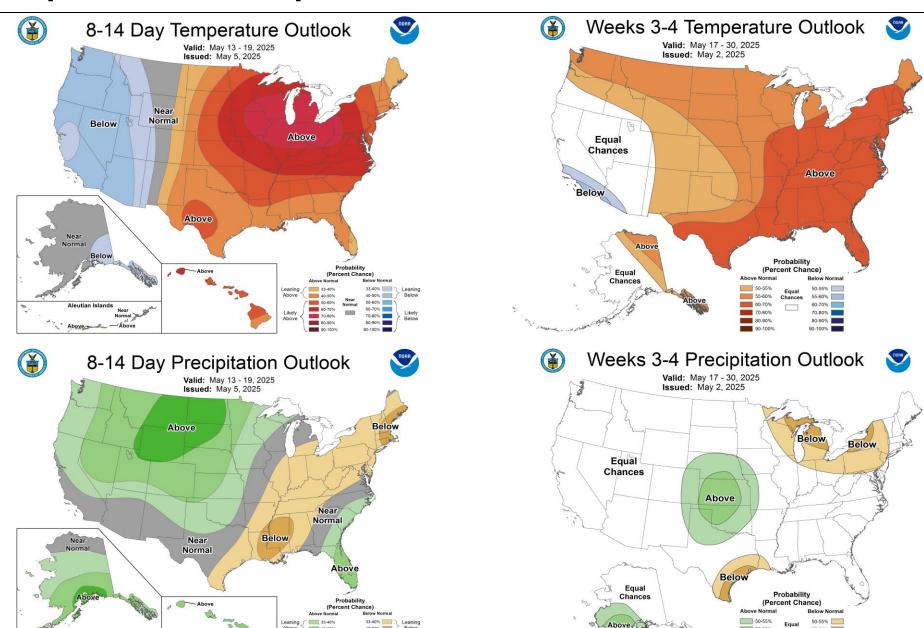




Mean 500-hPa Height Anomaly Forecasts: Weeks 2+3



Official Temperature & Precipitation Forecasts:



55-60% 60-70% 70-80% 80-90% 90-100%

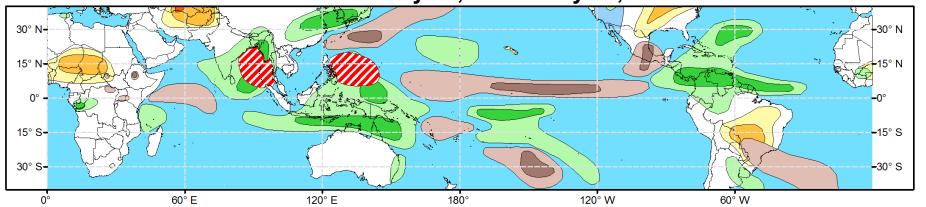


Global Tropics Hazards Outlook

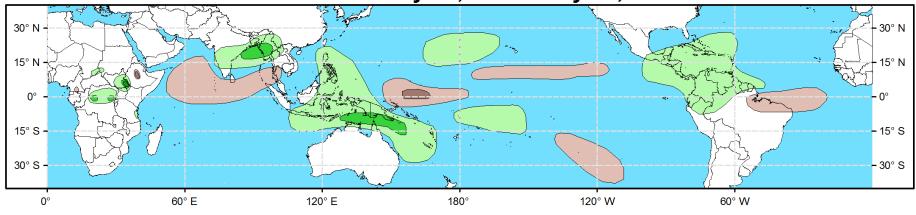
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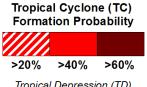


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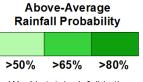


Week 3 - Valid: May 21, 2025 - May 27, 2025

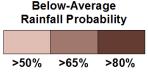




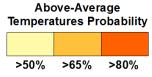
Tropical Depression (TD) or greater strength



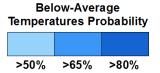
Weekly total rainfall in the Upper third of the historical range



Weekly total rainfall in the Lower third of the historical range



7-day max temperatures in the Upper third of the historical range



7-day min temperatures in the Lower third of the historical range